

## MODEL EXAMINATION PAPER 1

No. of Questions : 100

Time : 2 Hrs

- The number obtained by reverting the digits is 594 less than the original number. The number is  
 1) 762                      2) 258                      3) 528                      4) 852
- Twenty men can finish a piece of work in 30 days. When should 5 men leave the work so that it may be finished in 35 days  
 1) 10 days                  2) 20 days                  3) 25 days                  4) 15 days
- The value of a machine depreciates from Rs. 32,768 to Rs. 21,952 in three years. What is the rate % of depreciation?  
 1) 11%                      2) 12.5%                      3) 33%                      4) 12.25%
- If  $x^2 - 3x + 2$  is a factor of  $x^4 - px^2 + q$ , then the value of p and q respectively will be  
 1) -5, 4                      2) -5, -4                      3) 5, 4                      4) 5, -4
- The rational numbers lying between  $(1/3)$  and  $(3/4)$  are  
 1)  $117/300, 287/400$                   2)  $97/300, 299/500$                   3)  $99/300, 301/400$                   4)  $95/300, 301/400$
- Find the greatest number that will divide 1625, 2281 and 4218 leaving remainders 8, 4, 5 respectively  
 1) 11                      2) 12                      3) 13                      4) 14
- The area of a grassy plot is 480 metres. If each side has been 5m longer, the area would have increased by 245 sq. m. Find the length of the fence to surround it  
 1) 87                      2) 88                      3) 90                      4) 92
- The diagonals of a rhombus are 60 m and 80 m. Its area would be  
 1) 1000 sq. m                  2) 3600 sq. m                  3) 2400 sq. m                  4) 4800 sq. m
- A vessel can be filled by one pipe in 8 minutes, by a second pipe in 10 minutes. It can be emptied by a waste pipe in 12 minutes. In what time will the vessel be filled if all the three be opened at once?  
 1)  $7 \frac{1}{17}$  minutes                  2) 6 minutes                      3) 10 minutes                      4)  $8 \frac{1}{17}$  minutes
- The average age of 32 students is 10 years. If the teachers age is also included, the average age increases by one year. What is the age of the teacher?  
 1) 50                      2) 34                      3) 43                      4) 32
- The string of a kite is 150 metres long and it makes an angle of  $60^\circ$  with the horizontal, the height of the kite from the ground would be  
 1) 130.1m                      2) 129.9m                      3) 112 m                      4) 75 m
- If  $x = 2^{10} - 2^{10}$ , then the value of  $2x^3 + 6x$  would be  
 1) 3                      2) 6                      3) 9                      4) 0
- If  $x = (b - c)/a$ ,  $y = (c - a)/b$ ,  $z = (a - b)/c$ , then the value of  $x + y + z + xyz$  is  
 1) 4                      2) abc                      3)  $a + b + c$                       4) 0
- The value of the expression  $\sqrt{(4 + \sqrt{15})} + \sqrt{(4 - \sqrt{15})} - \sqrt{(12 - 4\sqrt{15})}$  is  
 1) a natural number                      2) a negative number

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